

MICROECONOMICS

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To Bill Vickrey, whose integrity, honesty, brilliance, and eccentricities make me proud to have been his student

Preface

Why write a new introductory economics textbook? Since I am an economist, the answer must be that the expected benefits outweighed the expected costs. But that doesn't mean I had my bank balance in mind when I decided to write this book. Quite honestly, there are easier ways of earning money (my wife's a doctor). There had to be some other benefits out there. For me, those other benefits had to do with a belief about how economics should be taught—what was important and what was not.

Before I started writing this book I had done quite a bit research on economic education. As part of that research Arjo Klamer and I had surveyed and interviewed graduate students in a number of top graduate programs. Two of the most disturbing things we discovered were that economic institutions and economic literature were being given short shrift in graduate economics education. For example, in response to the question, "How important is a knowledge of economic literature to being successful as an economist?" only 10 percent of the students responded that it was very important, while 43 percent said it was unimportant. In response to the question, "How important to achieving success as an economist is having a thorough knowledge of the economy?" only 3 percent said it was very important, while 68 percent said it was unimportant.

I believe that the majority of the profession is concerned with these results. Certainly the students we interviewed were concerned. They said they believed that institutions and literature were very important. Their survey responses simply indicated their perception of how people succeed in the profession, but the current situation was not the way it should be. Almost all economists I know believe that students need to know economic literature and have a thorough knowledge of the institutions. Without the appropriate background knowledge of institutions and literature, all the technical skills in the world aren't going to provide one with the economic sensibility necessary to understand what's going on in the economy or to decide whether or not a model is relevant.

As I thought about these results and considered my own teaching, I realized that the problem was not only in graduate schools; it had filtered down to undergraduate texts. As I looked through the texts, I saw excellent discussions of technical issues and of models, but little discussion of economic sensibility. These books didn't even try to provide the intellectual context within which those models developed or the institutional context to which these models were to be applied. The standard texts had settled into teaching technique for the sake of technique and had shifted away from teaching economic sensibility.

I decided that if I were serious about playing a role in reinstituting economic sensibility and a knowledge of institutions and literature in economic education, I would have to write an introductory textbook that did that. I took it as a challenge. Meeting that challenge was what drove me to write this book; it is what kept me going when all my rational instincts told me it was too much time and too much work.

Teaching Economic Sensibility

The question I faced was: How do you incorporate economic sensibility into a textbook? Economic sensibility is more than a knowledge of modeling techniques; it is a mindset in which one's lens of the world is a latticework of ascending cost/benefit frameworks in which one is deciding on the optimal degree of rationality. Economic sensibility is an enforced reasonableness that provides insight into complicated issues; it is a perspective, not a technique. The argument I heard in favor of teaching technique was that economic sensibility could not be taught. I reject that argument. Economic sensibility may be hard to teach because it does not come naturally for most people, but it can and must be taught. The question is: How do you teach it? The answer I came to is "Enthusiastically."

Economics with Passion

I am first and foremost an economics teacher; I am excited by economics. I find economic ideas relevant, challenging, and exciting. In my lectures I try to convey that excitement, and if the lecture is going right, I can feel the excitement in my students. Then off they go to read the text. All too often when they return to class, the fire in their eyes is gone; the textbook has lulled them into complacency. Those who know me know that I can put up with many things (not quietly, but nonetheless put up with), but one of those things isn't complacency. I want students to think, to argue, to challenge, to get passionate about the ideas. I encourage this reaction from students not just because economists' ideas deserve to be treated passionately, but also because, through a combination of passion and reason, eventually students achieve economic sensibility. I decided what was missing from most textbooks was the passion. I promised myself my book would retain the passion.

Now there's no way I'm going to get passionate about Slutsky equations, phase diagrams, indifference curves, or an AS/AD model. Mathematicians may get passionate about such things, I don't. I do get passionate about the insights economics gives one into the problems we, as individuals

viii Preface

and as society, must face: the budget deficit, TANSTAAFL, environment, and agricultural subsidies. If the techniques help in understanding the ideas fine, but if they don't, goodbye to the techniques.

Passion without Bias

While not all textbooks are written by passionless people, the conventional wisdom is that authors should hide their passion to make their books more marketable. In some ways this makes sense—often passion and ideological bias go together. Many economists' passions are ideologically linked, and if you remove the ideology, you remove the passion. Good economic sensibility cannot be—and cannot even appear to be—biased; if passion is purged in maintaining neutrality, it is purged for a good cause.

But passion and ideological bias need not go together. I believe it is possible for a passionate textbook to be reasonably objective and unbiased. And I set out to write a book that would be as unbiased as possible (but not more so) and to do so without masking my passion for economic ideas. Various techniques allow me to do this. For example, to keep the students interested in the ideas rather than focusing on technique, I present some ideas in a debate format with two passionate believers on both sides arguing the points. The debate format makes the arguments come alive; they are no longer technical issues that must be memorized; they are passionate ideas, and as the students get caught up in the debate, they think about the ideas much more deeply than they otherwise would.

A Conversational Tone

To transmit that sense of passion to the students, I needed a writing style that allowed it to come through. Quite honestly, textbookese douses passion faster than a cold shower. So this book is not written in textbookese. It's written in conversational English—I'm talking to the students. When they read the book, they will know me; they may not like me like my mother likes me, but they will know me.

The conversational tone is not a monotone; it ebbs and flows depending on the nature of the material. Sometimes, in the analytic parts, the style approaches textbookese; the important technical aspects of economics requires technical writing. When we hit those parts, I tell the students and encourage them to stick with me. But, even here I try to provide intuitive explanations that students can relate to.

The use of conversational style has two effects. First, it eliminates the sense some students have that textbooks provide the "truth." When the textbook author is a real person with peccadilloes and warts, the students won't accept what he or she says unless it makes sense to them. Approaching a textbook with a Missouri "show me" attitude stimulates true learning. Second, the conversational style keeps the students awake. If students' heads are nodding as they read a chapter, they're not learning. Now I know this book is not Catcher in the Rye; it's a textbook conveying sometimes complex ideas. But the excitement about economic ideas and the real world comes through.

The approach I take allows me to deal simply with complicated ideas. For example, in the book I discuss New

Keynesian economics, New Classical economics, real business cycles, strategic pricing, the theory of the second best, rent-seeking, Pareto optimality, and challenges to Pareto optimality. The conversational style conveys the essence of these complex topics to students in a nontechnical fashion without tying the students' brains up in technical tourniquets. The style allows me to relate the ideas to concrete examples rather than mathematical formulas, providing intuitive discussions of the ideas that capture the economic sensibility.

Models in Historical and Institutional Context

Discussing only the minimum of techniques necessary for the students to understand the ideas allows me more leeway to get into, and discuss, institutional and historical issues as they relate to current policy. Models without context are meaningless, and thus you'll find more historical and institutional issues in this book than in other principles books. The book has numerous maps; the discussion conveys the sense that geography, history, and psychology are important, even though it touches on them only tangentially.

One of the ways in which this historical and institutional approach shows up is in the complete coverage of the changing nature of economic systems. Socialism is undergoing enormous changes, and students are interested in what is happening and why it is happening. Their questions cannot be answered with technical models, but they can be discussed informally in a historical context. And that's what this book does.

International Focus

When I started to work on the book back in the 1980s, I decided to include a much deeper discussion of the international sectors than most textbooks did then. Now, while most books at least purport to have international coverage, this book definitely does.

In the introductory section, a full chapter, "An Introduction to the World Economy," sets the stage for the integration of international issues into the text (no other principles book has such a chapter). In the micro section, international policy issues are fully integrated throughout. For example, "The Regulation of Markets: Antitrust and Industrial Policies" discusses not only how international issues are changing the U.S. antitrust policy, but also discusses antitrust policy in a variety of countries. And there are still a full four chapters devoted to international issues at the end of the book, providing the flexibility for professors to give even more emphasis to international issues, depending on time constraints.

The Invisible Forces

I've incorporated in the book a pedagogical device I've found useful where I want to include the social and political forces that affect reality. That device is to convey to students a picture of reality being controlled not only by the invisible hand, but also by the invisible foot (politics) and the

Preface

ix

invisible handshake (social and cultural forces). This *invisible forces* imagery lets me relate economists' abstract models to the real world; it allows me to discuss the real-world interface between economics, politics, and social forces. What makes this device effective is that students can picture these three invisible forces fighting each other to direct real-world events; that image allows them to put economic models into perspective.

Other Pedagogical Features

I hope you'll find the style and approach teachable. But a textbook needs more than style to be user-friendly, and the publisher and I have worked hard to make this the most user-friendly textbook that exists. Let's consider the in-text pedagogy.

Overall Organization

The book is divided into three sections, and the micro section is divided into subparts. This organizational structure allows the instructor to pick and choose materials for the course, whether it be for an 8-week quarter or a 16-week semester. A number of alternative outlines are presented in the Instructor's Manual to assist you in using this book effectively.

Learning Objectives

Each chapter opens with a numbered list of learning objectives. These objectives give students a sense of the chapter concepts and provide a guide to approaching the material. The numbers associated with each objective are keyed to the text discussion, allowing students to focus on the discussion with a context. The learning objective numbers are also integrated with the key points in the chapter summaries. Thus, the learning objectives provide a framework both for learning and for review.

Key Terms

The vocabulary essential to understanding economics is boldfaced within the running text at the point where the term is introduced and defined.

Marginal Definitions

The key terms are used to form a running glossary for each chapter. The boldfaced term is highlighted and again defined in the margin, permitting easy review of important terminology and concepts. (Boldfaced page numbers in the index allow for quick reference to the marginal definitions.)

Graphics

Analytical graphs are simple and straightforward so that students can easily follow what's happening. Consistent use of color allows differentiation between movements along curves and shifts of curves. Descriptive and historical data are presented in a visually attractive fashion that parallels what the students will see in the popular press. Periodic

photos direct the students outside the text and into the real world. For example, almost every chapter has a margin picture of a reference source, letting students know that there's much more to economics than what's in the text.

Boxes

The text discussion is further enlivened, both visually and conceptually, by a series of boxes. These boxes serve one of two purposes. Those entitled "A Reminder" serve as a review for students; they summarize and consolidate key material. Those entitled "Added Dimension" either extend the text material or provide another perspective on it, relating the material to the real world and deepening students' understanding.

Case Studies

Economics is more than textbook discussions of models. It is applying economic reasoning to economic events, using economic knowledge to interpret articles about economics, understanding when economic reasoning is being objectively applied and when it is biased. It is a type of critical thinking, involving the use of models not because they are right, but because they are useful.

To apply economics effectively, students must have practice in doing so. For that reason this book differs from other books: it includes case studies and newspaper articles as integral parts of the text. It then discusses both the content and the perspective of those articles, giving the student some practice in going beyond the text and actually applying what they learn. One chapter, "Microeconomics, Social Policy, and Economic Reasoning" is devoted entirely to these case studies.

Chapter Summaries and Key Terms List

At the end of each chapter are both a chapter summary and a key terms list. The summaries provide a review of the key points; they reflect the integrated learning strategy that organizes the pedagogical presentation of the material. Each of these points is referenced to the appropriate learning objective, making review more efficient. The page-referenced key terms list provides quick review of the terms that have been boldfaced in the text and that all students should know.

Questions for Thought and Review and Problems and Exercises

Each chapter concludes with 10 questions and 2 problems or exercises. These take the students back through the chapter. Some ask for recall, some ask the student to apply reasoning, some ask for synthesis of the material, and some ask the student to go beyond what they have learned and apply not the analysis, but the general economic reasoning process they have learned. Each question is rated for degree of difficulty. To further stimulate the students to go beyond the text, some questions send students into the library or to real world institutions for answers.

x Preface

Appendixes

Appendixes that lead the students beyond the chapter material are found at the end of various chapters. These cover issues such as graphical analysis and indifference curves. They allow a deeper technical presentation by those faculty who want it.

Pedagogical Supplements

The supplements package that supports the text received the same careful attention to pedagogy as did the text.

The STUDY GUIDE enables students to review chapter content and key concepts through a variety of exercises that are integrated by the pedagogical framework of the text. Students are encouraged to practice analyzing, evaluating, and using economic information with two special types of exercises. And multiple-choice mastery tests provide practice for classroom exams. Answers are included for all activities.

The INSTRUCTOR'S MANUAL uses P.L.U.S. (Professional Learning Unit Systems) to identify which of the text and ancillary learning aids are available to students and instructors within a lecture outline, providing an ataglance menu. The lecture outline for each chapter also suggests points to emphasize, further topics for discussion, in-class exercises, and it identifies critical thinking skills. A separate section provides alternative examples and offers suggestions for drawing on other critical thinking skills, based on the chapter material. Annotated selected readings and references and a bibliography of supplementary resources round out the resources offered in this ancillary. Answers to end-of-chapter questions are provided.

The TEST BANK offers approximately 100 questions per chapter that are classified by learning objective, degree of difficulty, and skill. Where useful, questions contain a rationale for their answers. (Software versions on Computest3 are available.)

TEACHING TRANSPARENCIES are available for all of the important figures and tables in the text.

READY NOTES replicate, in book form, the *Teaching Transparencies* so that students may take notes and make sketches easily during lecture.

PRINCIPLES OF ECONOMICS SIMULATION SOFT-WARE allows students to apply the economic theory they are learning by making decisions in a variety of economic contexts and seeing the effects of those decisions. A workbook asks students to make observations, answer questions, and complete exercises as they work through the simulations. Available for IBM or IBM-compatible PCs.

MICROVIEW is a tutorial that uses modules, with page references to the text, to help students explore key microeconomic concepts. Students are directed to manipulate graphical or other information in a model and then to answer questions about the effects of these actions on various relationships. The software is available for IBM or IBM-compatible PCs.

COMPUTEST3 TEST GENERATOR allows instructors to add and edit questions; save and reload tests; create different versions of each test; attach graphics to questions and/or answers; import and export ASCII files; and select questions based on type, level of difficulty, key word, learning objective or skill level. Included on the disk is an Online Testing Program that allows the testmaker to create tests that can be taken by students using a computer. Computest3 provides password protection of saved tests and the question database and it can run on a network. Available for IBM and IBM-compatible PCs.

ECONOMICS NEWSLETTER, which examines current U.S. and world economic issues and is published periodically by Richard D. Irwin, is sent to adopters.

ECONOMICS U\$A, the video library, is also available to adopters. These 28 half-hour programs bring economic theory to life with a blend of historic footage, documentary sequences, interviews, and analysis.

People to Thank

A book this size is not the work of a single person, despite the fact that only one is listed as author. So many people have contributed so much to this book it is hard to know where to begin thanking them.

The initial push for the project came from a friend, Scott Stratford. He knows how important he was for this book coming into being, and I thank him. Then there were those who worked on the early drafts: Viraj Miranni, Steve Fossil, Cele Gardner, Mike Elia, and numerous other students, colleagues, and friends who worked on aspects of the book along the way. Various classes suffered through early versions of the text and told me what worked and what didn't. The book was written for them, and it could not have been written without them.

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Preface

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xi

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I cannot thank this group of referees enough. They corrected many of my stupid mistakes, they explained to me how a text can contribute to good teaching, and they kept me focused on combining teaching economic sensibility with economic models. They provided me with page upon page of detailed comments and suggestions for improvement. The book strongly reflects their input and is much more usable because of that input. Just before I began the final draft of the manuscript, we took another look at our plans for the book via a questionnaire. Thanks to the over 500 who responded. Those responses helped to confirm many ideas and to fine-tune the final manuscript. When the final draft was finished, it was classroom-tested by R. Asher at Bowie State University and by James Q. Aylsworth at Lakeland Community College and their students. They discovered a few mistakes and offered helpful suggestions and enthusiasm, which I gratefully accepted.

Once the manuscript takes its final form there are still an almost infinite number of jobs to be done on it. Figures must be checked, arguments checked, drafts read, reread, and reread once again. I had immense help in these undertakings: Ding Chun, George Doupsas, and Ali Mehdi worked one whole summer for me, and Chris Gemignani worked another on such projects. They did a great job.

In this entire process the people at Irwin were extremely important and helpful. One was Wendy Hagel, a sales rep at Irwin, who convinced me that Irwin was the right publisher for me. Another was Gary Nelson, the sponsoring editor, who believed in the project and saw to it that it went forward. He, more than anyone else, has kept this project on track. The book would not have been what it is without him. With his steadying influence, he has coordinated the entire process and made it work. Then there's Pat McCabe, my development editor, who had to put up with me through the entire process. She not only did that with great aplomb; she also added important pedagogical dimensions to the book and maintained her sense of humor and belief in the book throughout a sometimes hectic and stormy process. Then there's the upper-level management at Irwin, specifically, Lew Gossage, Bill Setten, and Jeff Sund. I had less contact with them, but I fully recognize their guiding hands. Their belief in the project and their willingness to make it possible for an antibureaucratic author to fit in with a formal publishing institution allowed the book to proceed. I thank them all enormously.

The actual production process of a four-color introductory book is complicated, and to do it on an accelerated schedule requires enormous efforts. Luckily, I had Lynne Basler as project editor directing the manuscript through the process. She did a superb job, as did all the players in the production process: Bruce Sylvester, the copy editor; Laurie Entringer, the designer who made the book look good; Michelle Oberhoffer, the photo researcher; Irene Sotiroff, production manager, who worked with Better Graphics,

xii Preface

Inc., the typesetter and Von Hoffmann Press, the printer; and Kim Meriwether, art manager, who worked closely with Eletra Graphics, Inc., on the art program.

Of course, as they did their superb job, they created more work for me, reading the galley proofs, the page proofs, and doing all the final checking that must be done in an effort to eliminate those pesky errors that occur out of nowhere. Paul Sommers went over the manuscript with his fine-tooth comb and discerning eye and caught things overlooked until then. I thank him.

After you have what you believe is a good book, the process still isn't done. You still have to get people to look at it. Ron Bloecher, Bevan O'Callaghan and John Wood started early to develop a strategy that will get the book considered. Then, there are the sales reps who are the core of a textbook publishing company. Long before this book was complete I met with many sales reps, discussing the book and learning to see it through their eyes. That process made the book much better than it otherwise would have been.

These days an introductory economics book is much more than a single book; it is an entire package, and numer-

ous people have worked on the package. Paul Estenson and Mary Acker did the INSTRUCTOR'S MANUAL; Richard Trieff and Benjamin Shlaes did the STUDY GUIDE; and Mitch Charkiewicz, Susan Dadres, Joanne M. Dott, Eleanor R. Fapohunda, Dorinda Lynn, and Thomas A. McGahagan worked on the TEST BANK with me. They did a great job, and I thank them one and all.

Finally, there's the group of people who helped me at every stage of the process. Throughout the entire project, Helen Reiff has been my right hand, temporarily putting aside her law practice to see that justice was done to my book. Then, there's my wife, Pat, who put her medical practice on hold to give me more time to work on the book. She saw to it that Zack and Kasey, both of whom were conceived after this project was underway, and I, got the love and care we needed. My love and admiration for her remain as unbounded as ever.

As you can see, although my name is on the book, many people besides me deserve the credit. I thank them all.

Contents in Brief

	SECT		N .
	Introd	uction	
1	Economics and Economic Reasoning 5 Appendix A Economics in Perspective 27 Appendix B Graphish: The Language of Graphs 28	4 U.	e Economic Organization of Society 59 S. Economic Institutions 79 Sependix A Trading in Stocks 105
2	Supply and Demand 34	5 An	Introduction to the World Economy 107
	S E C T	101	
)	
	Microeco	nomics	
	PART 1 Microeconomic Theory: The Basics	14	Politics, Economics, and Agricultural Markets 295
6	Individual Choice and Demand 135	15	Microeconomics, Social Policy, and Economic Reasoning 313
7	Appendix A Indifference Curve Analysis 159	16 17	The Role of Government in the Economy 332. Economics and the Environment 351
7	Supply, Production, and Costs: I 163		
8	Supply, Production, and Costs: II 180		DART 2
10	Perfect Competition 194 Monopoly 217		PART 3 Factor Markets
11	Monopolistic Competition, Oligopoly, and Strategic Planning 235	18	Who Gets What? The Distribution of Income 371
	Appendix A A Case Study 254		Appendix A A Numerical Example of the Problems of Redistributing Income 395
	PART 2 Microeconomic Policy Debates	19	Work and the Labor Market 397
	interocconomic Foncy Devaces	20	Nonwage Income: Rent, Profits, and
12	Competition in the Real World 259		Interest 421
13	The Regulation of Markets: Antitrust and Industrial		

Policies 276 此为试读, 需要完整PDF请访问: www.ertongbook.com

SECTION

International Issues

γ 1			
21	International	Trade	437
	************	*****	

22 International Finance 458

Appendix A The Analytic Foundations of the J-Curve 480

- Growth and Economics of Developing Countries 482
- 24 Socialist Economies in Transition 500

Contents

SECTION			wicroeconomics and
1			Macroeconomics 22
Introduction			Economic Institutions 22
			Economic Policy 23
			Objective Policy Analysis 23
Economics and Economic Reasoning	5		Policy and the Invisible Forces 24
200000000000000000000000000000000000000			Conclusion 24
What Economics Is About 6			Appendix A 27
Economic Terminology 6			Appendix B 28
Economic Insights 7		_	
Economic Institutions 7		2	Supply and Demand 34
Economic Policy Options 8			***
Economic Reasoning 8			Demand 35
A Guide to Economic Reasoning 8			The Law of Demand 35
Marginal Costs and Marginal			The Demand Table 38
Benefits 8			From a Demand Table to a Demand
A REMINDER: Economic Knowledge in One			Curve 39
Sentence: TANSTAAFL 9			Individual and Market Demand
Economics and Passion 10			Curves 39
Opportunity Cost 10			Shifts in Demand versus Movement
The Production Possibility			along a Given Demand
Table 11			Curve 40
The Production Possibility			A REMINDER: Six Things to Remember
Curve 12			When Considering a Demand
ADDED DIMENSION: Dealing with Math			Curve 42
Anxiety 13			Supply 42
ADDED DIMENSION: Resources, Inputs,			The Law of Supply 42
Technology, and Output 16			The Supply Table 44
Reasonableness the Production			From a Supply Table to a Supply
Possibility Curve, and Tough			Curve 44
Choices 17			ADDED DIMENSION: Supply, Production,
Economics and the Invisible			and Profits 45
Forces 17			Individual and Market Supply
ADDED DIMENSION: The Invisible			Curves 45
Forces 19 ADDED DIMENSION: Winston Churchill and			Shifts in Supply versus Movements
Lady Astor 20			along a Given Supply Curve 46
Economic Terminology 20			The Marriage of Supply and
Economic Insights 20			Demand 47
The Invisible Hand Theory 21			A REMINDER: Six Things to Remember
Economic Theory and Stories 21			When Considering a Supply
Leonomic Theory and Stories 21			Curve 48

4

The First Dynamic Law of Supply and Demand 48 The Second Dynamic Law of Supply and Demand 48 A REMINDER: The Dynamic Laws of Supply and Demand 49	The Importance of Geographic Economic Information 80 Diagram of the U.S. Economy 80 A REMINDER: Economic Geography of the United States 82 Business 82
The Third Dynamic Law of Supply and Demand 49	Entrepreneurship and Business 83 Trials and Tribulations of Starting a
The Graphical Marriage of Supply and Demand 50	Business 83 Consumer Sovereignty and Business 84
Equilibrium 51 ADDED DIMENSION: Public Choice and Rent-Seeking Economic Models 52	ADDED DIMENSION: Balance Sheets and Income Statements 85
Changes in Supply and Demand 52 Supply and Demand in Action: Oil	Categories of Business 86 Levels of Business 86
Price Fluctuations 55 ADDED DIMENSION: The Supply and	ADDED DIMENSION: Is the United States a Postindustrial Society? 87
Demand for Children 56	Sizes of Business 87 Goals of Business 88
The Economic Organization of Society 59	Forms of Business 89 Households 92
Economic Systems: Capitalism and	Household Types and Income 93 Households as Suppliers of
Socialism 60	Labor <i>93</i> People Power <i>94</i>
Capitalism 61	The Social, Cultural, and Ideological Sensibilities of American
Socialism 62 Differences between Socialism and	People 94 Government 96
Capitalism 64 Communism 65	Government as an Actor 96 Government as a Referee 97
Evolving Economic Systems 66 The History of Economic Systems 67	ADDED DIMENSION: Finding More Information about the Economy 101
Feudal Society: Rule of the Invisible Handshake 67	The Limits of Government Action 102
ADDED DIMENSION: Milestones in Economics 68	Appendix A 105
ADDED DIMENSION: Tradition and Today's Economy 69	5 An Introduction to the World
From Feudalism to Mercantilism 69	Economy 107
From Mercantilism to Capitalism 70	International Economic Statistics: An Overview 110
ADDED DIMENSION: The Rise of Markets in Perspective 71	Economic Geography 110 Different Economic Problems 110
ADDED DIMENSION: The Role of Economists in Economic	Comparative Advantage and Trade 111
Transitions 73 From Capitalism to Welfare	A REMINDER: A World Economic Geography Quiz 112
Capitalism 73 From Feudalism to Socialism 75	How International Trade Differs from Domestic Trade 113
From Socialism to ? 76 ADDED DIMENSION: Shareholders and	The U.S. International Trade
Stakeholders 76	Deficit 115 Debtor and Creditor Nations 116
Economic Systems of the Future 77	Determinants of the Trade Deficit 116
U.S. Economic Institutions 79	ADDED DIMENSION: Black and Gray Markets in Currency 117
A Bird's-Eye View of the U.S. Economy 80	Economists' View of Trade Restrictions 118

Contents xvii

International Economic Policy and Institutions 118 Governmental International Institutions 118 A REMINDER: International Economic Institutions 119 Multinational Corporations 119 Who Are Our International Competitors? 121 The European Economic Community 121 ADDED DIMENSION: Germany: The Leading EEC Country 123 "Japan, Inc." 123 ADDED DIMENSION: Economies That Don't Work So Well 125 Japan, Inc. versus the United States 126		Calculating Elasticity: A Complication 149 A REMINDER: Slope and Elasticity: Another Way to Calculate Elasticity 150 Some Comments about Elasticity 150 Elasticity and Total Revenue: A Closer Look 151 The Influence of Substitution on the Elasticity of Demand 152 ADDED DIMENSION: Income and Cross Elasticity of Demand 155 Individual and Market Demand Elasticity 156 Conclusion 157 Appendix A: Indifference Curve Analysis 159	
SECTION	7	Supply, Production, and Costs: I 163	3
Microeconomic		Supply, Opportunity Costs, and Real People 164	
PART 1		Opportunity Costs and the Law of	
Microeconomic Theory: The Basics		Supply 164 ADDED DIMENSION: Goods and Bads 165	
Individual Choice and Demand 135		Elasticity of Supply 165 ADDED DIMENSION: Geometric Tricks for	
Individual Choice, Self-Interest, and		Estimating the Elasticity of Supply 166	
Economic Reasoning 136 Utilitarian Foundations of Individual		The Production Process 167	
Choice 137		The Role of the Firm in Production 168	
Measuring Pleasure 137		ADDED DIMENSION: Value Added and the	
Cardinal and Ordinal Utility 137 The Relationship between Total		Calculation of Total Production 167	
Utility and Marginal		The Long Run and the Short Run 168	
Utility 137		Production Tables and Production	
Diminishing Marginal Utility 138		Functions 168	
From Utility to Demand 139		The Law of Diminishing Marginal	
The Diamond/Water Paradox 139 Rational Choice and Marginal		Productivity 170	
Utility 139		ADDED DIMENSION: The History of the Law of Diminishing Marginal	
Rational Choice and Maximizing		Productivity 171	
Utility 141		The Costs of Production 171	
Rational Choice and Simultaneous		Fixed Costs, Variable Costs, and	
Decisions 141 Marginal Utility and the Law of		Total Costs 171 Average Total Cost, Average Fixed	
Demand 144		Cost, and Average Variable	
ADDED DIMENSION: Income and		Cost 172	
Substitution Effects 145		Marginal Cost 173	
Tests and Individual Choice 145 Individual Choice Theory in		Graphing Cost Curves 173	
Context 146		Intermission 178	
Elasticity of Demand 147	0		
Elasticity and the Effect of a Price	8	Supply, Production, and Costs: II 18	0
Increase on Total Revenue 148		W	
Elasticity and the Demand Curve 148		Making Long-Run Production Decisions 181	
		201010110 101	

6

xviii Contents

9

Total Revenue and Total Cost 204

The Shutdown Point 205

Technical Efficiency and Economic	Long Run Competitive
Efficiency 181	Equilibrium 206
ADDED DIMENSION: Producing the Mazda	The Supply and Demand Curve for
Miata 183	the Industry 207
A REMINDER: Review of Costs 184	ADDED DIMENSION: The Shutdown
The Relationship between Short-Run	Decision and the Relevant Costs 207
Average Total Cost and Long-	Supply and Demand Together 208
Run Average Total Cost 185	An Increase in Demand 208
Costs, Entrepreneurial Activity, and	A Technological Improvement 209
the Supply Decision 186	A Decrease in Demand 209
Price Must Be Expected to Exceed	Other Examples in the Real
Cost for a Good to Be	World 210
Supplied 186	Perfect Competition, Pareto Optimality,
The Entrepreneur and Supply 186	and Judging Economic
Using Cost Analysis in the Real	Systems 212
World 186	A Geometric Representation of the
ADDED DIMENSION: Profiles of Two Entrepreneurs 187	Welfare Loss of Deviations from
Economies of Scope 187	Perfect Competition 212
Learning by Doing and	Criticism of the Pareto Optimality
Technological Change 188	Benchmarks 213
ADDED DIMENSION: New Approaches in	The Importance of the Competitive
Cost Analysis 190	Model for All Economists 214
Unmeasured Costs 190	Conclusion 214
The Standard Model as a	10
Framework 191	10 Monopoly <i>217</i>
Cost Considerations in Everyday	
Life: Two Examples 191	A Model of Monopoly 219
Conclusions and a Look Ahead 192	Determining the Monopolist's Price
7,2	and Output Numerically 219
Douglast Communities 104	Determining the Monopolist's Price
Perfect Competition 194	and Output Graphically 220
P. 4 . 5	ADDED DIMENSION: A Trick in Graphing
Perfect Competition 195	the Marginal Revenue Curve 221
The Necessary Conditions for	A REMINDER: Monopolies Don't Have
Perfect Competition 195	Supply Curves 222
The Necessary Conditions and the	Profits and Monopoly 222
Definition of Supply 196	An Example of a Monopolist Making
Demand Curves for the Firm and the	a Profit 222
Industry 197	An Example of a Monopolist
Profit Maximization and Equilibrium of	Breaking Even and Making a
a Competitive Firm 198	Loss 223
Marginal Revenue 199	A Monopolist with a Zero Marginal
Marginal Cost 199	Cost 224
Profit Maximization: MC = MR 199	The Price-Discriminating
The Marginal Cost Curve is the	Monopolist 224
Supply Curve 200	The Welfare Loss from
The Broader Importance of the	Monopoly 226
MR = MC Equilibrium	A Partial Equilibrium Presentation of
Condition 200	the Welfare Loss 226
Economic Profit, Accounting Profit,	Measuring the Welfare Loss from
and Normal Profit 200	Monopoly 227
Setting MC = MR Maximized Total	ADDED DIMENSION: The Second Best and
Profit 201	Some Qualifications to the Welfare
ADDED DIMENSION: Profit Maximization	Loss 228
and Real-World Firms 202	A Broader View of Monopoly 229
Determining Profit and Loss 202	Types of Barriers to Entry and the

Public's View of Monopoly 229

Contents

Normative Views of Monopoly 229	The Lazy Monopolist and X-
Should Government Charge Firms if	Inefficiency 261
It Gives Them a Monopoly	The Fight Between Competitive and
Right? 231	Monopolistic Firms 263
ADDED DIMENSION: The Winner's	How Monopolistic Forces Triumph
Curse 232	over Perfect Competition 263
AIDS, AZT, and Monopoly 232	Economic Insights and Real-World
Conclusions 233	Competition 264
	How Competitive Forces Triumph
Monopolistic Competition, Oligopoly, and	over Monopoly 264
	Natural Monopolies and
Strategic Pricing 235	Competition 265
	Fair Price Doesn't Necessarily Mean
The Problems of Determining Market	Low Price 266
Structure 236	
Classifying Industries 236	Economic Reasoning and the Real World 267
ADDED DIMENSION: Foreign Competitive	
Oligopolies 239	Two Case Studies 267
Conglomerate Firms and	Case Study 1: Competition in the
Bigness 239	Biotech Industry 268
The Importance of Classifying	Discussion 270
Industry Structure 239	Case Study 2: Competition in the
Monopolistic Competition 240	Casket Industry 271
Many Sellers 240	ADDED DIMENSION: Case Study
Product Differentiation 240	Updates 274
Multiple Dimensions of	Competition and Studying Dynamic
Competition 241	Economic Processes 274
Ease of Entry of New Firms in the	
Lang Dun 241	TI-D-14' CM 1 . A
Graphical Representation of	The Regulation of Markets: Antitrust and
Monopolistic Competition 241	Industrial Policies 276
Comparing Monopolistic	
Competition with Perfect	History of U.S. Antitrust Laws 277
Competition 243	The Sherman Antitrust Act 277
Advertising and Monopolistic	ADDED DIMENSION: Simple Tools and
Competition 244	Complicated Problems 278
ADDED DIMENSION: The Ten Most	The Standard Oil and American
Successful Ads 246	Tobacco Cases: Judging Market
Oligopoly 246	Competitiveness by
Models of Oligopoly Behavior 246	Performance 279
Strategic Pricing and Oligopoly 249	The Clayton Act and The Federal
ADDED DIMENSION: Game Theory and	Trade Commission Act 279
Oligopoly 250	The ALCOA Case: Judging Market
Oligopoly Models, Structure, and	Competitiveness by
Performance 250	Structure 280
Conclusion 251	Judging Markets by Structure and
Appendix A 254	Performance: The Reality 280
	Recent Antitrust Cases 281
PART 2	The state of the s
Microeconomic Policy Debates	Mergers, Acquisitions, and
	Takeovers 285
Competition in the Real World 259	Acquisitions and Takeovers 285
Tomposition in the Real World 237	ADDED DIMENSION: White Knights and Golden Parachutes 286
The Goals of Real-World Firms 260	
The Gould of Real-World Filling 200	Mergers 286

Recent Merger Activity and

Deacquisitions 288

Assessment of Mergers and

11

12

The Problem with Profit

Maximization 260

What Do Real-World Firms

此为试读, Maximize 整 261 下请访问: www.ertongbook.c Acquisitions 288